

Please enter the following claims:

41-47. (canceled)

48. (currently amended) A method of making a ~~non-human~~ transgenic female mouse animal, comprising the steps of:

(a) providing a recombinant nucleic acid ~~according to claim 43~~ comprising;

i. a Tet operator response element;

ii. a nucleic acid encoding ovine FSH β operatively associated with said Tet operator response element;

iii. an FSH β promoter;

iv. an FSH β locus control region operatively associated with said FSH β promoter; and

v. a nucleic acid encoding a ligand-controllable receptor operatively associated with said FSH β promoter, wherein said ligand-controllable receptor is a tetracycline-controllable transactivator fusion protein, and wherein tetracycline or an analog thereof acts as a ligand for said transactivator fusion protein; and wherein said receptor binds to said Tet operator response element in the presence of said ligand when expressed in a host cell; and

(b) introducing said nucleic acid construct into a fertilized mouse ~~mammalian~~ oocyte;

(c) implanting said oocyte in a pseudopregnant female mouse animal; and then

(d) raising said transgenic female mouse animal to viability from said oocyte in said host;

wherein said transgenic female mouse animal produces greater levels of FSH β and greater numbers of oocytes ~~gametes~~ when administered said ligand than when not administered said ligand.

49-50. (canceled)

51. (original) The method of claim 48, wherein said introducing step is carried out by microinjection.

52. (original) The method of claim 48, wherein said nucleic acid comprises linear nucleic acid.

53-56. (canceled)

57. (currently amended) A method of enhancing the production of gametes oocytes in a transgenic mouse, ~~non-human animal~~, comprising the steps of:

(a) providing a transgenic mouse of claim 48, and ~~non-human animal~~, said animal comprising cells that contain:

(i) ~~a response element;~~

(ii) ~~a nucleic acid encoding FSH β operatively associated with said response element; [[.]]~~

(iii) ~~an FSH β promoter;~~

(iv) ~~an FSH β locus control region operatively associated with said FSH β promoter; and~~

(v) ~~(v) a nucleic acid encoding a ligand-controllable receptor operatively associated with said FSH β promoter, wherein said receptor binds to said response element in the presence of said ligand when expressed in a host cell;~~

(b) administering said ligand to said mouse animal in an amount effective to (i) stimulate the production of FSH β in said mouse animal above that found in a corresponding untransformed animal; and (ii) stimulate the production of gametes oocytes in said mouse animal to a level greater than that found in the corresponding untransformed mouse animal.

58-60. (canceled)

61. (currently amended) The method of claim 57 ~~60~~, further comprising the step of harvesting said oocytes from said animal.

62. (currently amended) The method of claim 57 ~~60~~, wherein said administering step is followed by the step of:

(c) mating said mouse ~~animal~~ to produce a litter of offspring therefrom, the size of said litter being greater than the size of a litter produced by the corresponding untransformed mouse ~~animal~~.

63. (currently amended) The method of claim 57, wherein said administering step is carried out by feeding said ligand to said mouse ~~animal~~.

64-70. (canceled)